

APPROVED	O.Q. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

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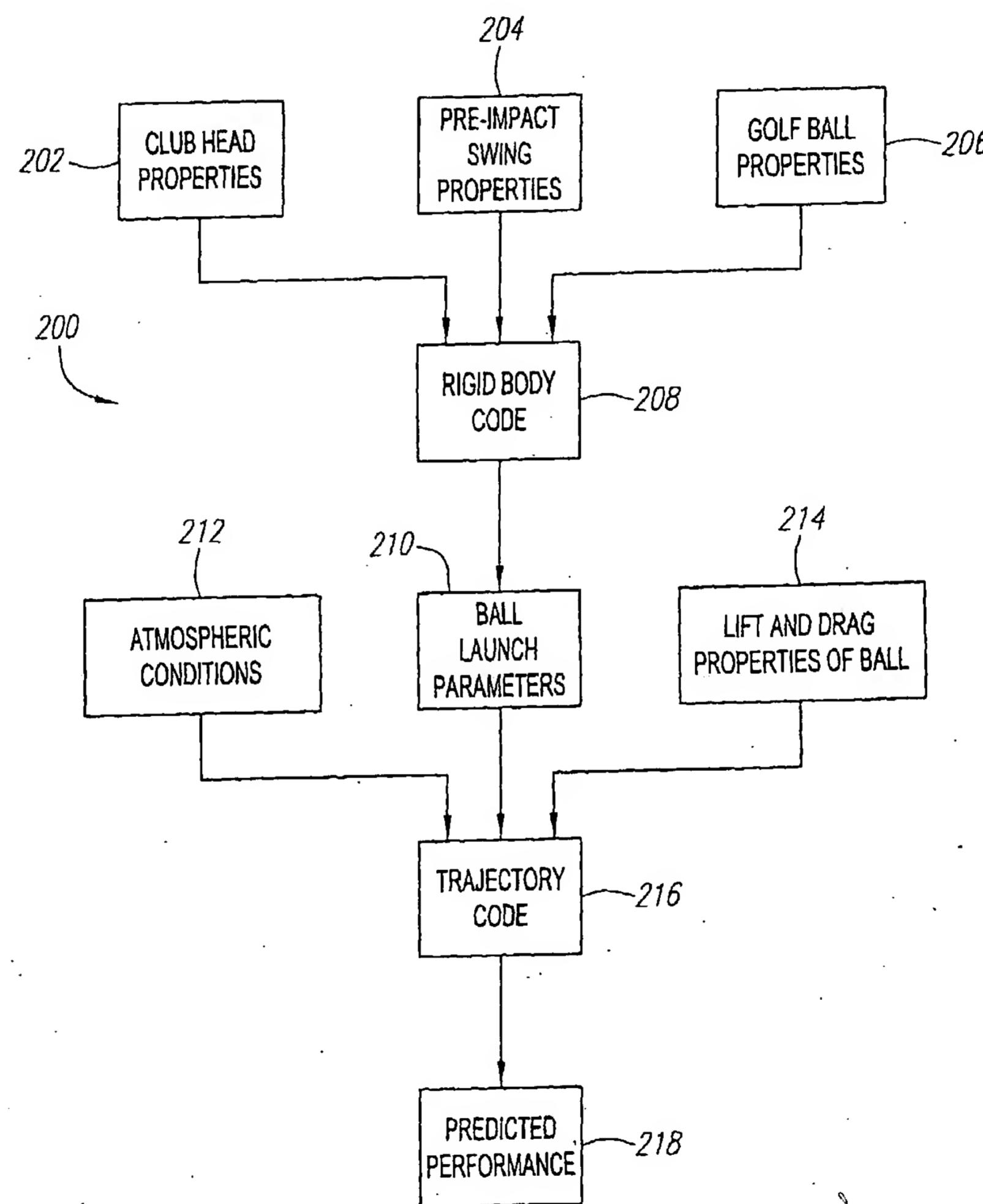
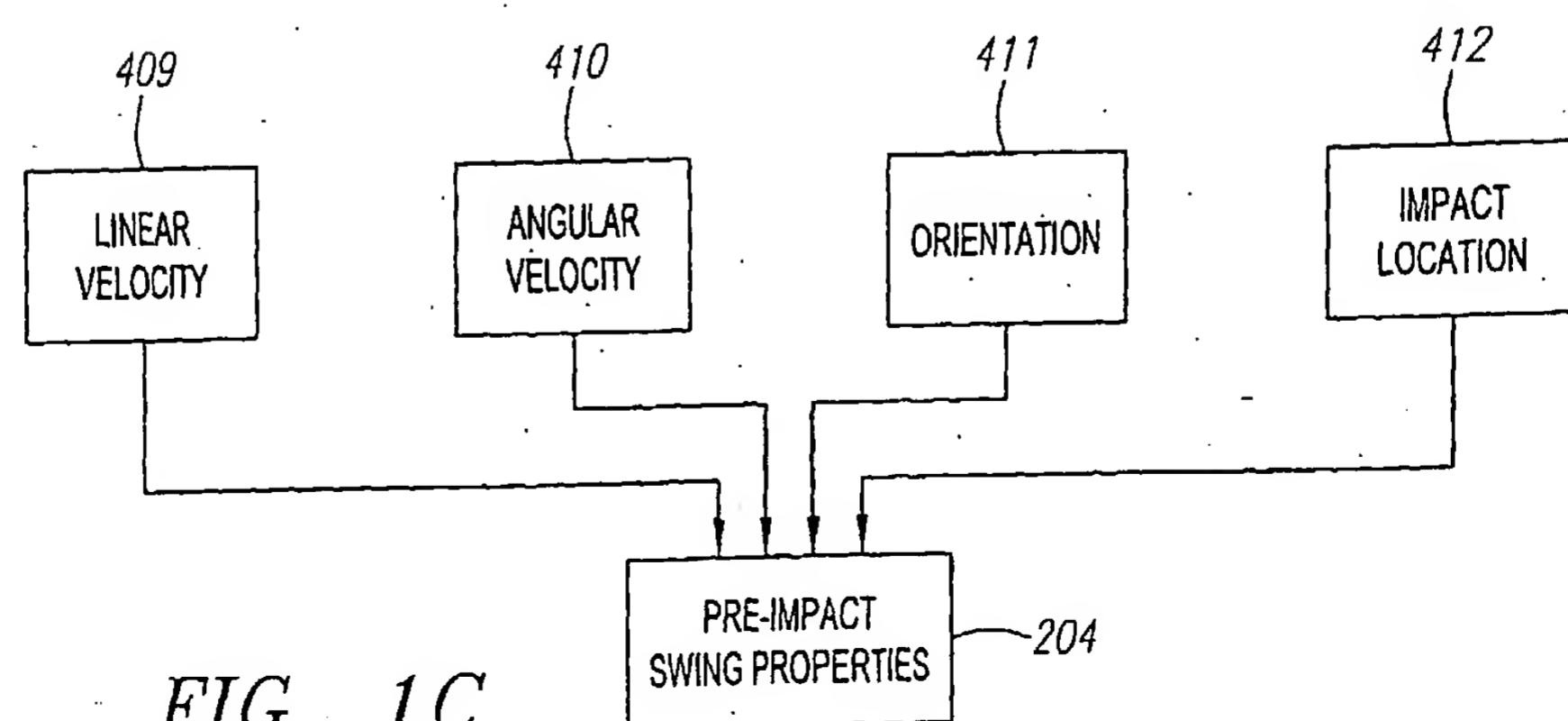
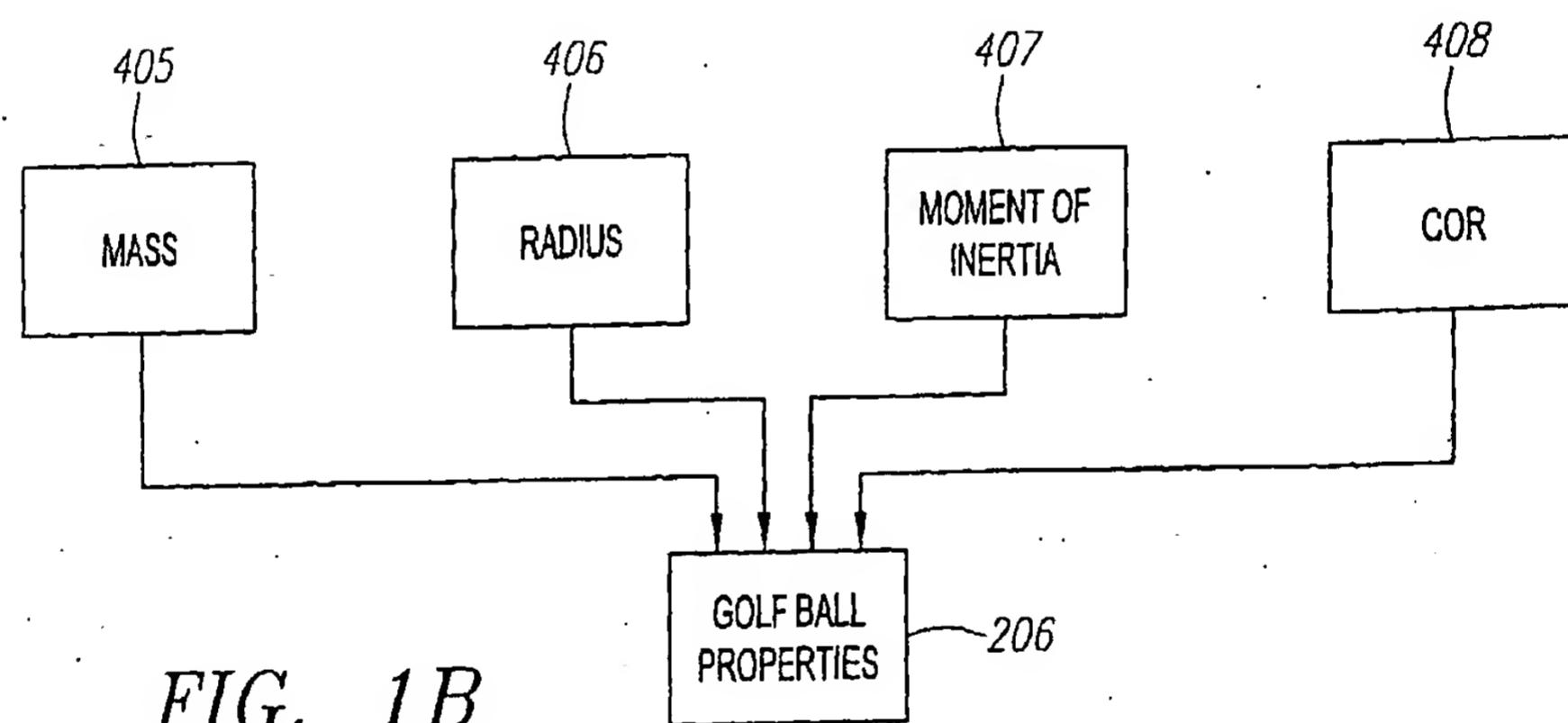
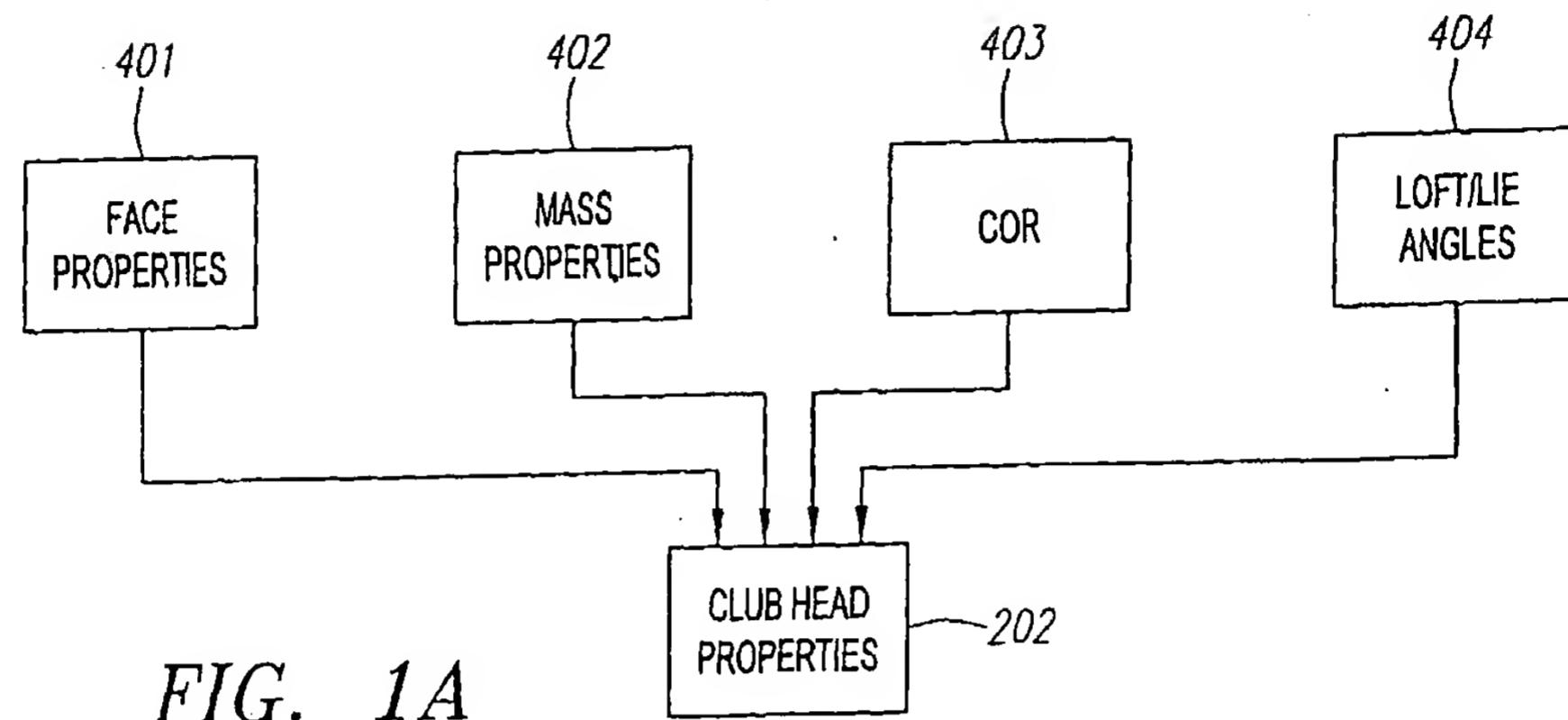
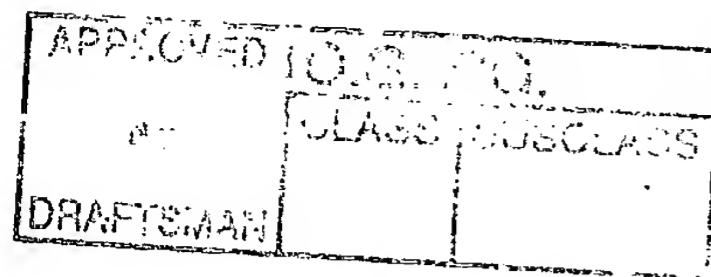


FIG. 1

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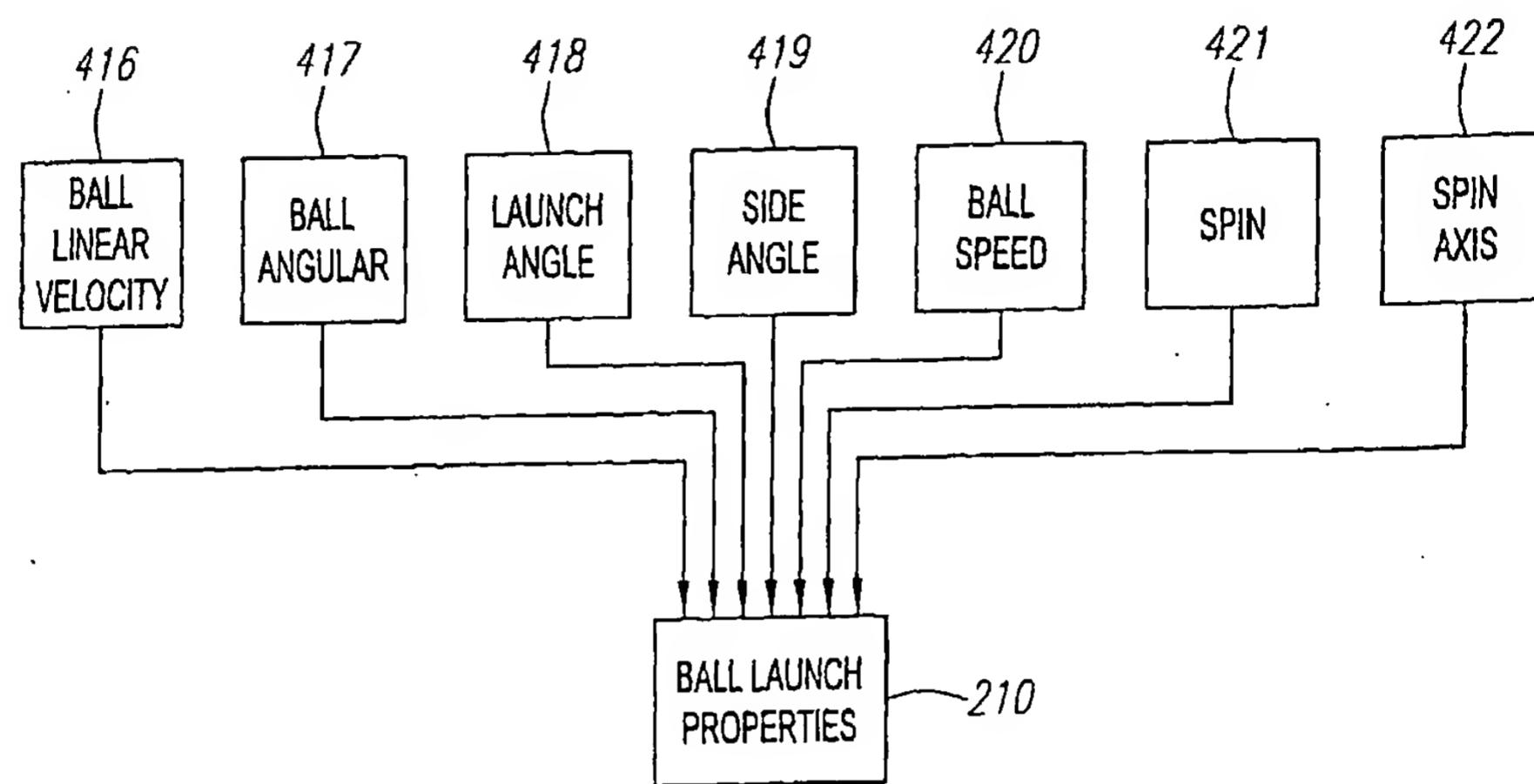


FIG. 1D

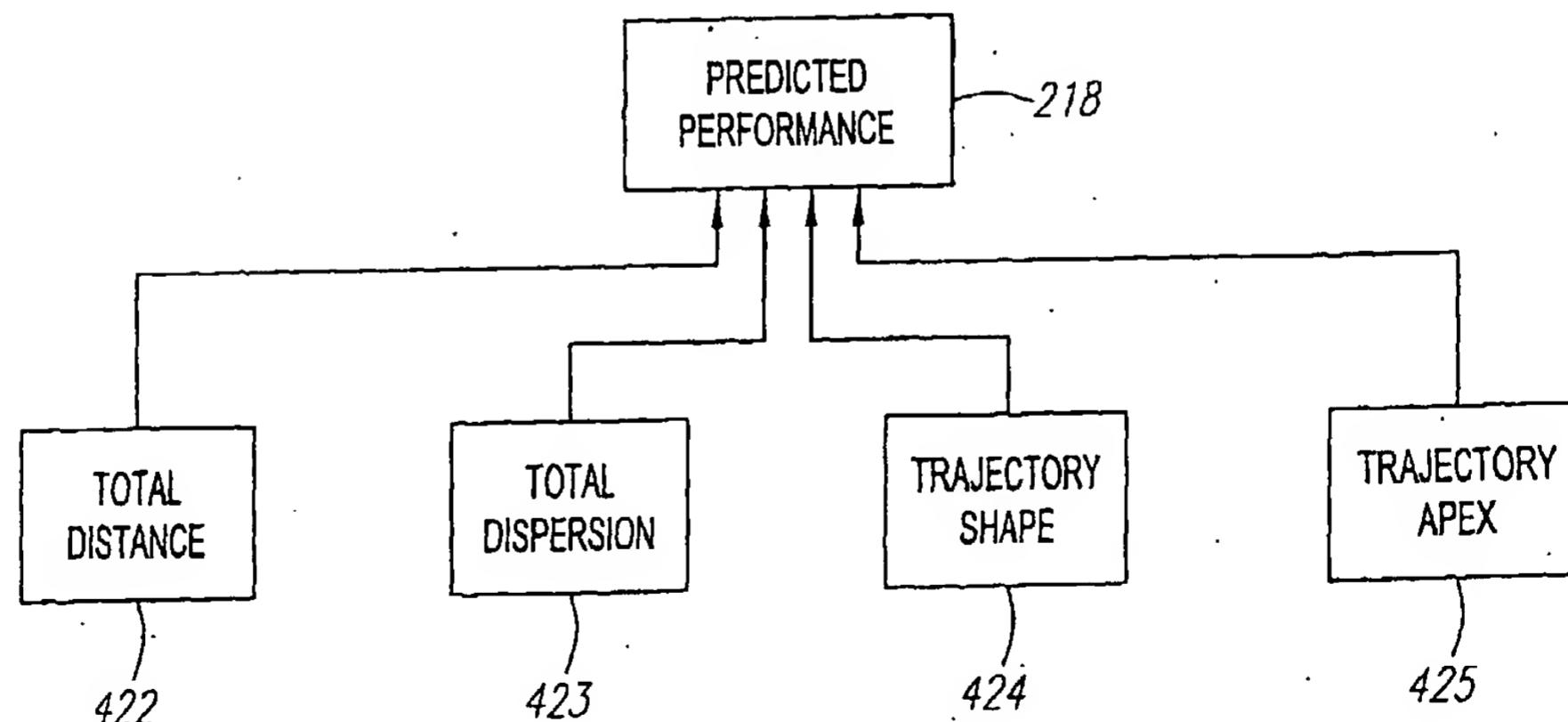


FIG. 1E

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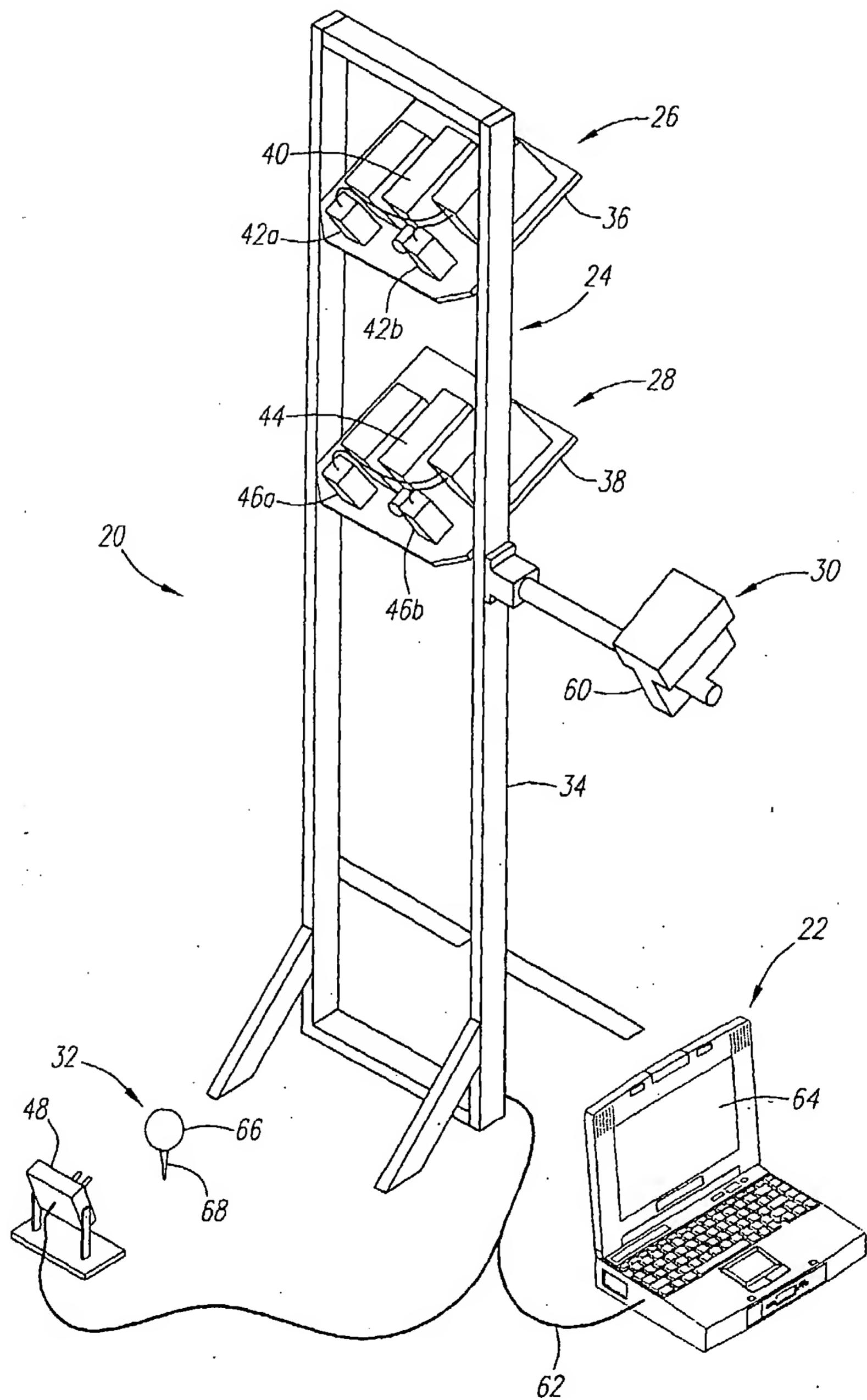


FIG. 2

APPROVED	O.G. FIG.
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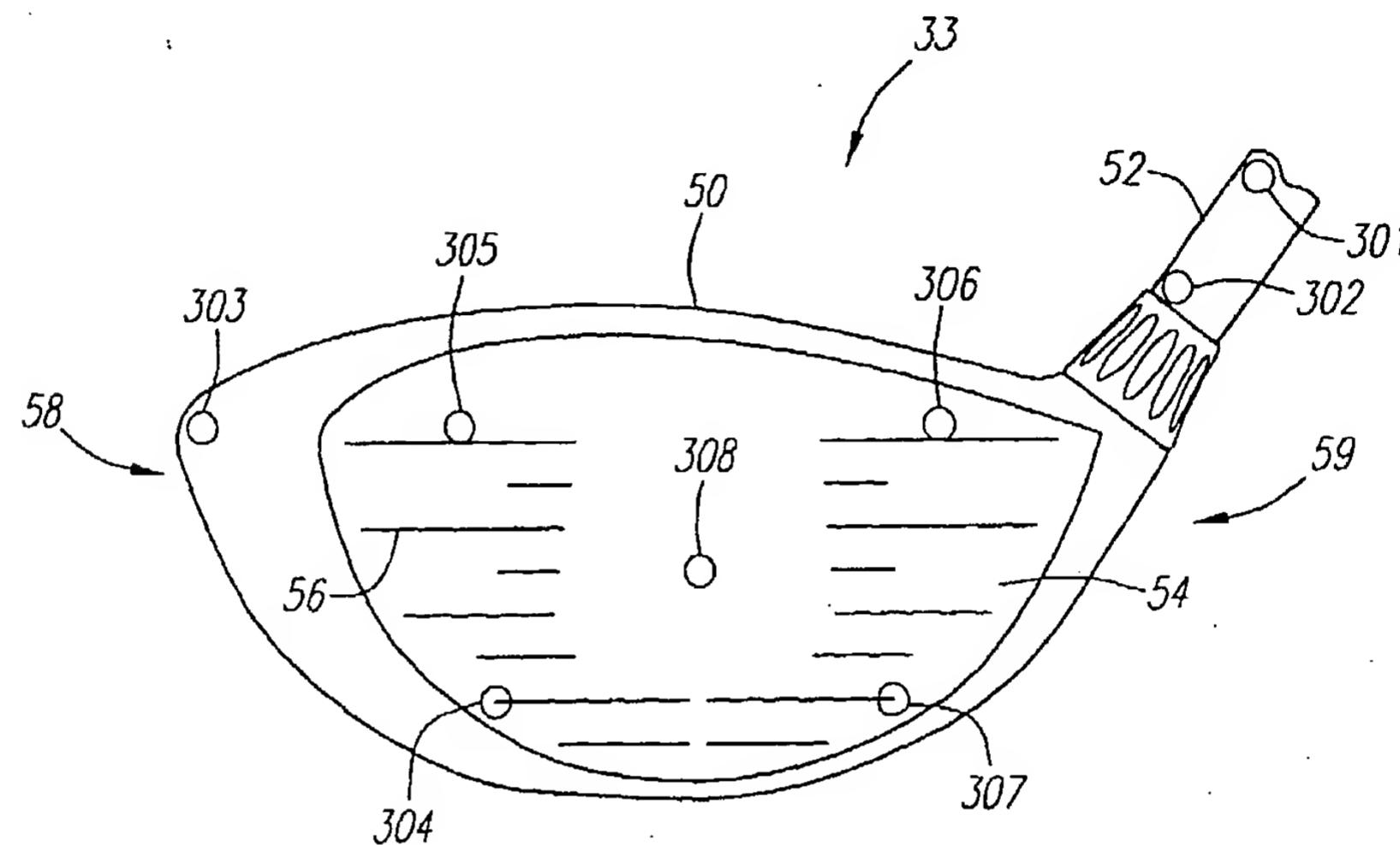


FIG. 3

POINT	WORLD X	WORLD Y	WORLD Z	ERROR	DISTANCE	CamO X	CamO Y
301	-86.762	-61.571	-288.862	0.347	0.000	350.000	657.000
302	-74.308	-53.481	-317.631	0.084	0.000	332.000	708.000
303	16.055	4.874	-342.577	0.051	0.000	175.000	782.000
304	-26.932	3.129	-371.397	0.146	0.000	254.000	825.000
305	-19.786	3.871	-343.333	0.021	0.000	238.000	779.000
306	-64.463	-31.024	-339.310	0.140	0.000	317.000	753.000
307	-66.308	-27.403	-367.273	0.023	0.000	323.000	800.000
308	-44.758	-11.521	-354.379	0.108	0.000	284.000	788.000

FIG. 3A

APPROVED	O. O. FIG.
BY	CLASS SUBCLASS
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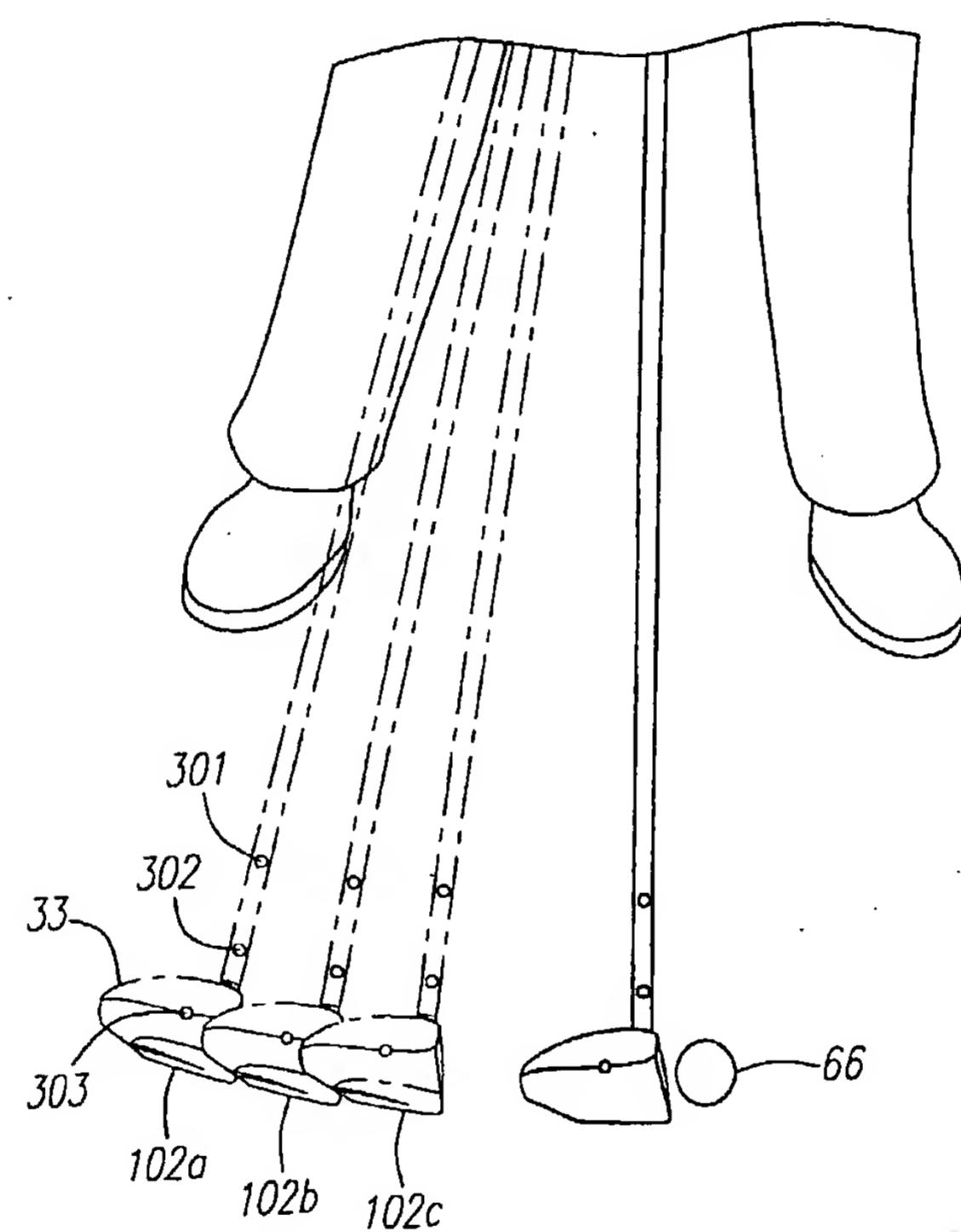


FIG. 4

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CLUB HEAD PARAMETERS

CLUB FILTER 1 CLUB FILTER 2

CHECK 2D MARKER SIZE (PIXELS)

CHOOSE CLUBHEAD MARKER ORIENTATION

MAXIMUM DEFAULT

MINIMUM DEFAULT

TWO ON CLUBHEAD TWO ON SHAFT TWO ON SHAFT + ONE TOE

NUMBER OF CLUBHEAD EXPOSURES
 MIN = 8 MAX = 9

USE RIGID RELATIONSHIPS BETWEEN MARKERS (RBC)

THRESHOLD SETTING (GREY SCALE) DEFAULT

HOR. SEP. BOX SETUP
 VERT. SEP. DEFAULT

OK CANCEL APPLY

FIG. 5

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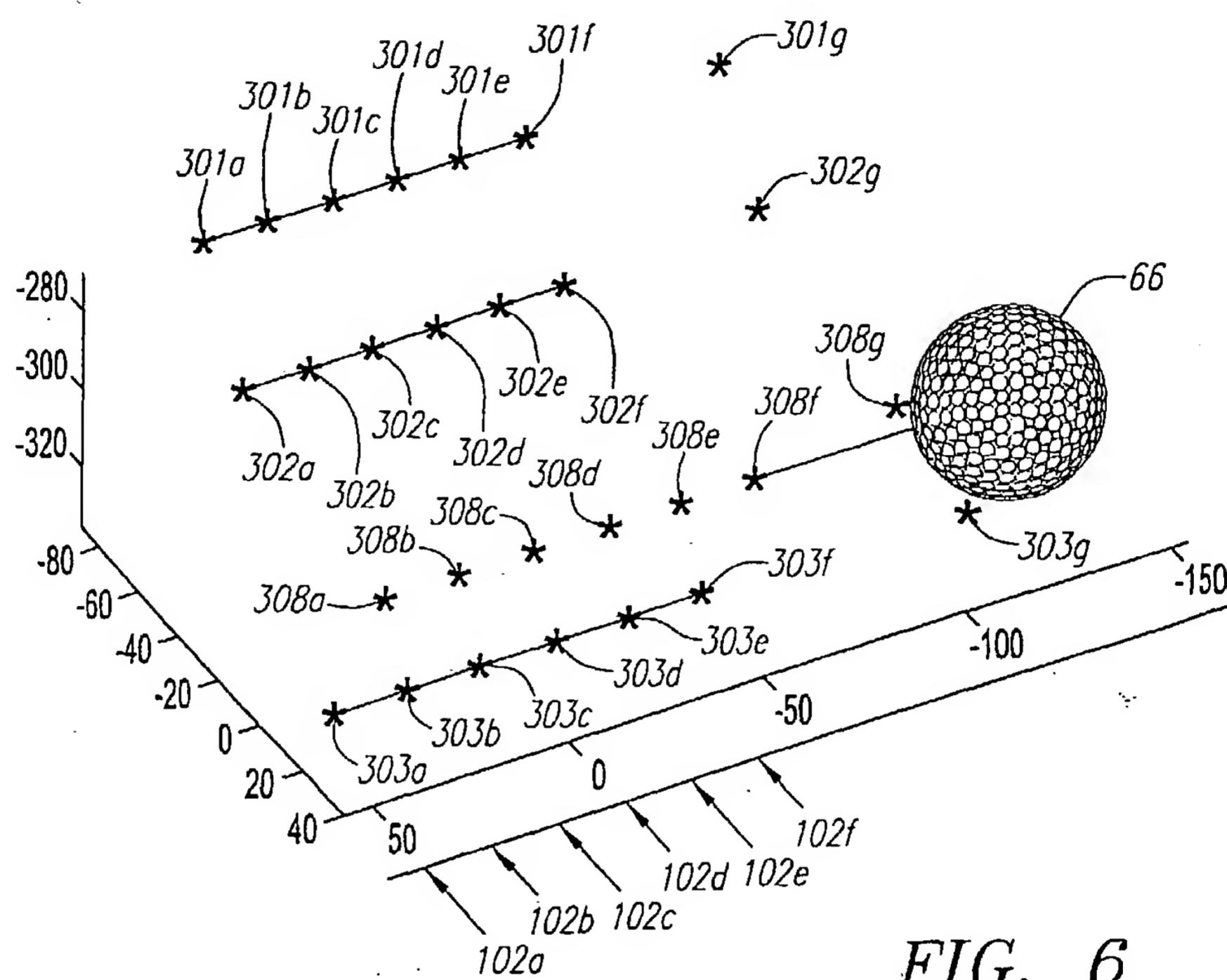


FIG. 6

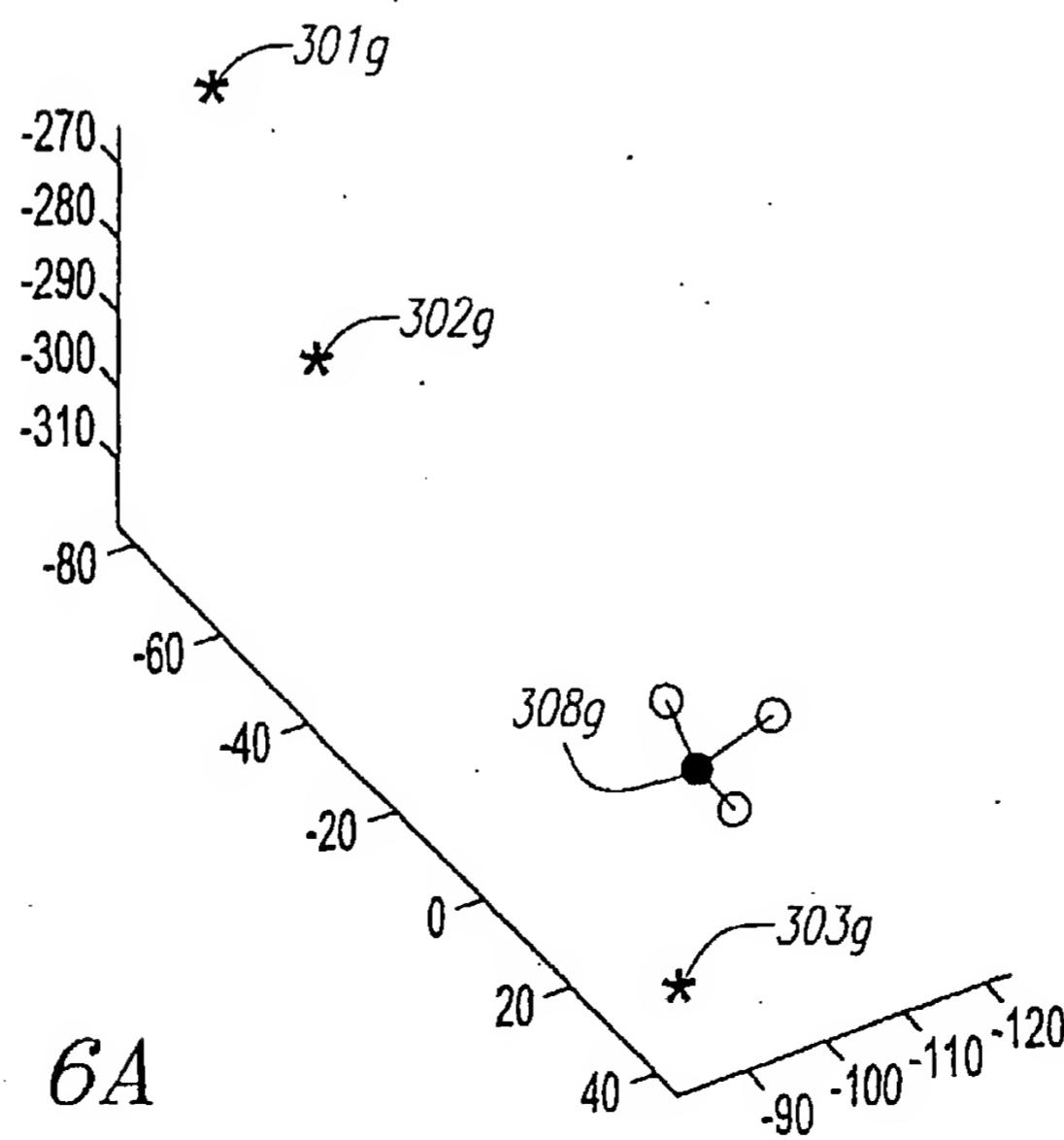


FIG. 6A

APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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POINT	WORLD X	WORLD Y	WORLD Z	ERROR	DISTANCE	CamO X	CamO Y	Cam1 Y	Cam1 Y
1	25.403	-88.666	-273.087	0.111	0.000	242.515	645.011	207.000	604.248
2	25.721	-69.464	-298.941	0.029	0.000	241.496	693.577	217.137	651.683
3	9.897	-87.512	-272.644	0.030	0.000	268.582	644.080	232.530	601.725
4	9.769	-67.875	-298.553	0.070	0.000	268.638	692.660	243.845	649.186
5	-5.735	-87.007	-272.220	0.023	0.000	294.857	642.971	257.675	599.105
6	-6.311	-67.238	-298.038	0.143	0.000	296.011	691.479	269.969	645.958
7	-21.271	-86.103	-271.525	0.006	0.000	320.897	641.474	282.607	596.242
8	-22.270	-66.534	-297.401	0.038	0.000	323.118	689.855	295.663	642.865
9	-36.700	-85.210	-270.598	0.143	0.000	346.708	639.492	307.112	593.156
10	-38.391	-66.149	-296.520	0.132	0.000	350.431	687.885	321.133	639.137
11	-52.402	-84.929	-269.717	0.114	0.000	372.918	637.555	331.442	589.850
12	-54.388	-65.649	-295.440	0.133	0.000	377.461	685.556	346.190	635.256
13	57.162	34.188	-312.472	0.108	0.000	174.069	756.568	218.724	713.629
14	39.036	35.111	-312.274	0.148	0.000	207.939	755.624	251.265	710.126
15	20.973	36.864	-311.607	0.131	0.000	241.528	754.119	283.744	706.195
16	2.772	37.989	-310.857	0.051	0.000	275.386	752.137	315.686	701.974
17	-15.330	39.292	-309.880	0.186	0.000	308.983	750.018	347.139	697.297
18	-33.449	40.473	-308.726	0.063	0.000	342.554	747.174	378.164	692.663
19	-132.128	-0.469	-314.181	0.027	0.000	517.000	735.500	506.250	672.250

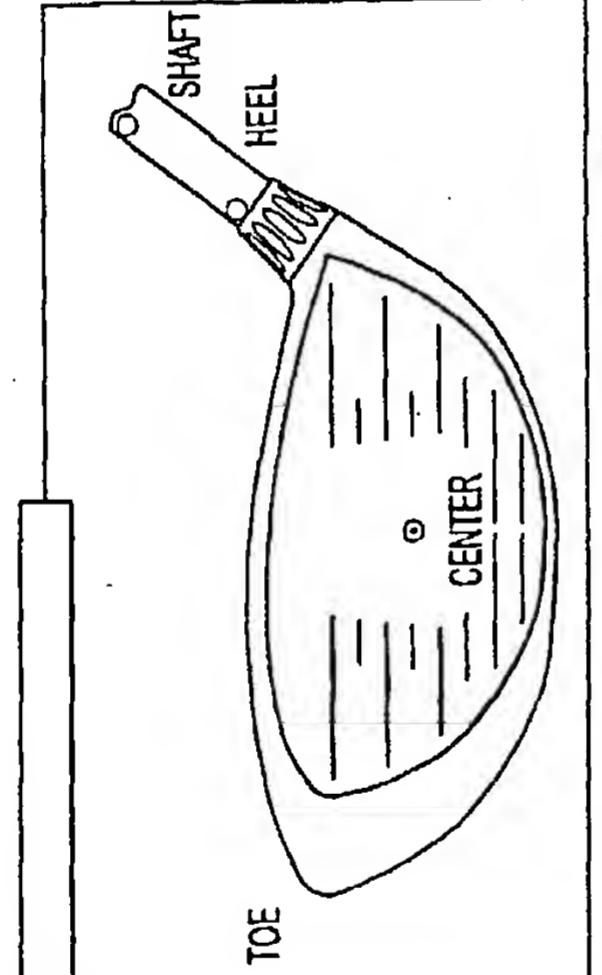
FIG. 6B

SEARCH	FIG.
CLASS	SUBCLASS
SEARCH	

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RBC CONTROLS

X



OK

CANCEL

POLYNOMIAL TO USE FOR CURVE FIT

2 MAX = 4 MIN = 1

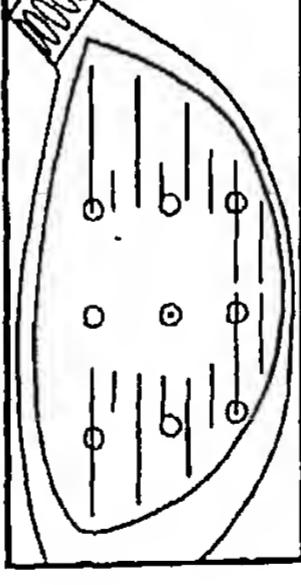
DATA

WRITE OUTPUT FILE

IMPACT LOCATION ON FACE

FORCE IMPACT LOCATION

VERTICAL INCREMENTAL LENGTH mm



HORIZONTAL INCREMENTAL LENGTH mm

TEE BALL LOCATION

FORCE TEE BALL LOCATION

X Y Z

UNITS = mm

FIG. 7

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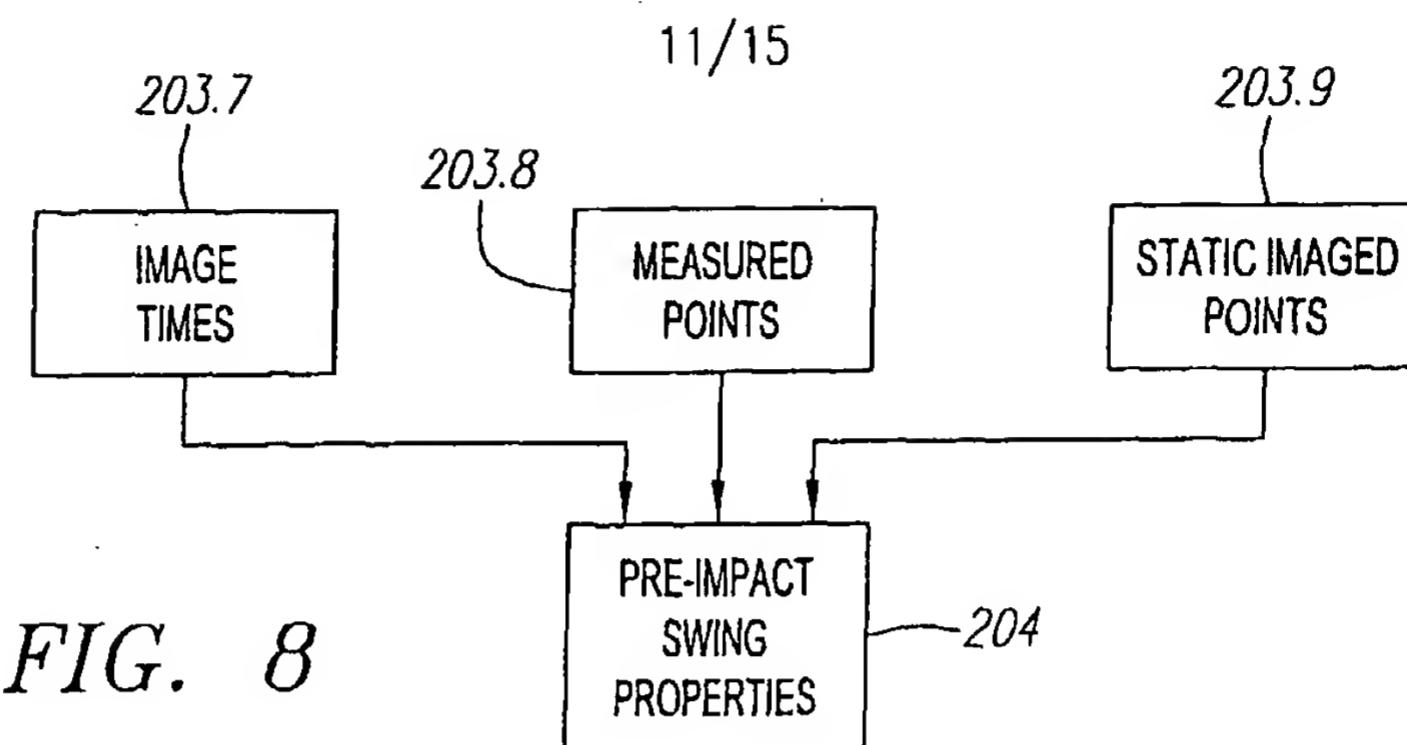


FIG. 8

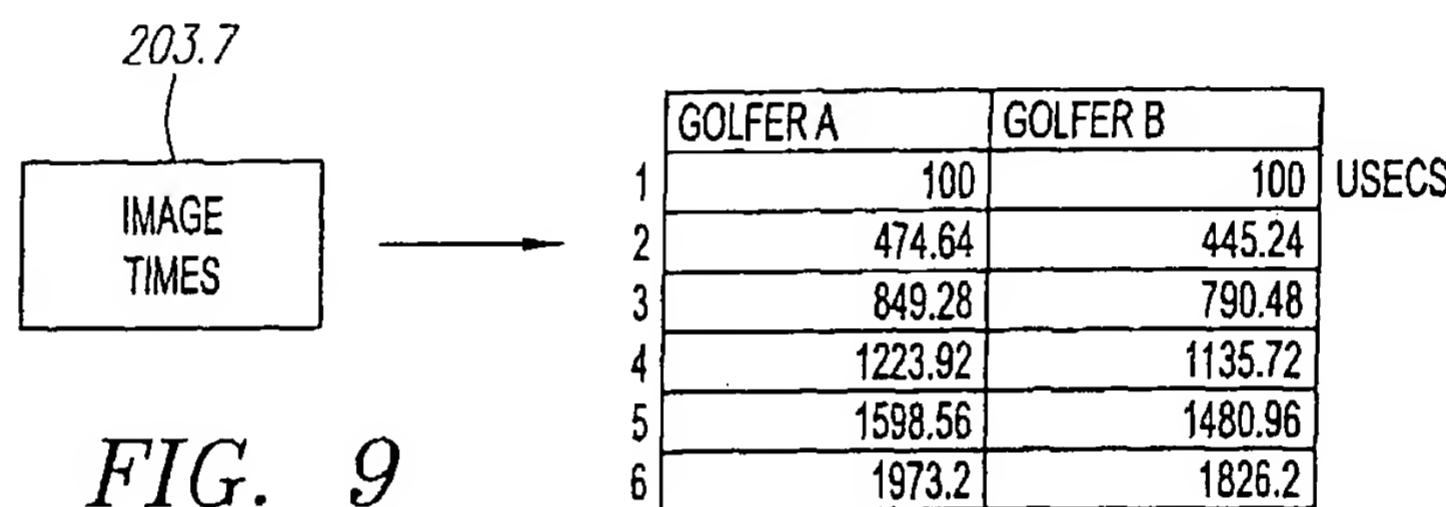


FIG. 9

POINT	GOLFER A			GOLFER B			
	x	y	z	mm	x	y	
1	22.5248	-83.9985	-277.294	mm	19.041	-72.461	-259.712
2	24.169	-65.4006	-303.476		22.4965	-55.2863	-286.794
3	7.19187	-82.9872	-277.522		4.01986	-70.4449	-259.675
4	8.42472	-64.3227	-303.821		7.01569	-53.2288	-286.847
5	-8.13186	-82.1665	-277.659		-10.9967	-69.261	-259.648
6	-7.22265	-63.5248	-303.832		-8.4661	-51.7105	-286.751
7	-23.3764	-81.5513	-277.808		-26.1186	-68.0642	-259.411
8	-23.0235	-62.4671	-303.799		-24.0434	-50.5302	-286.55
9	-38.7101	-81.1989	-277.632		-41.2492	-66.9375	-259.08
10	-38.7728	-62.1541	-303.773		-39.6559	-49.2957	-286.093
11	-53.8825	-80.338	-277.333		-56.2913	-65.3794	-258.417
12	-54.3404	-61.5229	-303.473		-55.2933	-48.2721	-285.617
13	55.757	37.5722	-317.082		52.9912	47.9439	-304.485
14	38.0195	39.5086	-317.184		35.5873	50.1247	-304.708
15	20.3043	41.514	-317.408		18.3605	52.5852	-304.554
16	2.59074	42.9978	-317.464		0.955063	54.6563	-304.407
17	-15.4104	43.8896	-317.378		-16.5273	56.2923	-303.924
18	-33.2143	45.1303	-316.736		-33.9984	57.8887	-303.17
19(BALL)	-133.559	-3.897	-315.635		-133.559	-3.897	-315.635

FIG. 10

APPROVED	DATE, PG.
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203.9

STATIC
IMAGE
POINTS

POINT	GOLFER A			GOLFER B			
	x	y	z	x	y	z	
1	-86.2027	-59.7842	-288.178	mm	-86.2027	-59.7842	-288.178
2	-73.7585	-51.7931	-317.232		-73.7585	-51.7931	-317.232
3	16.84	7.93595	-341.742		16.84	7.93595	-341.742
4	-26.4742	4.66858	-370.935		-26.4742	4.66858	-370.935
5	-19.7858	3.87145	-343.333		-19.7858	3.87145	-343.333
6	-64.4634	-31.0241	-339.31		-64.4634	-31.0241	-339.31
7	-66.9001	-27.2861	-367.303		-66.9001	-27.2861	-367.303
8	-44.8512	-9.84895	-353.971		-44.8512	-9.84895	-353.971

FIG. 11

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CLUB HEAD
PROPERTIES

401	FACE PROPERTIES	STEEL	TI	
	FACEANGLE	0	0	DEGREE
	FACEBOTTOMCENTER			
	x	-0.714	-0.795	INCH
	y	0.756	0.643	
	z	0.17	0.197	
	FACECENTER			
	x	0	0	
	y	0.756	0.643	
	z	0.949	1.21	
	BULGE	9.5	11	INCH
	ROLL	11	11	

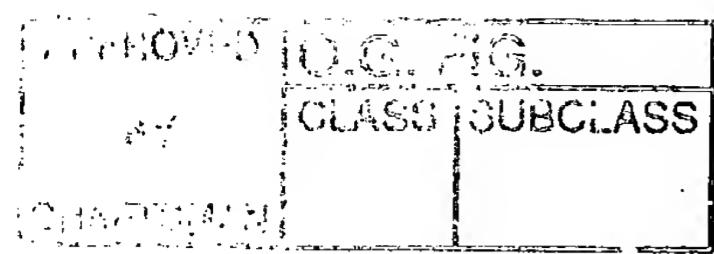
402	MASS PROPERTIES			
	MASS	197	187	GRAM
	CGX	0.423	0.634	INCH
	CGY	0.664	0.574	
	CGZ	0.871	0.9899	
	MOIxx	1737	2291	GRAMCM2
	MOIyy	1378	1781	
	MOIzz	2337	2871	
	MOIxy	213	247	
	MOIxz	-18	-12	
	MOIyz	113	164	

403	COR	0.785	0.865	
	LOFT	11	13	DEGREE

404	LIE	55	55	
	HOSELHEIGHT	0	0	

	SPINCOR	0	0	

FIG. 12



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PRE-IMPACT
SWING
PROPERTIES

FIG. 13

GOLFER A GOLFER B (AVERAGES)			
409	LINEAR VELOCITY		
	VX	-100.07	-107.35 MPH
	VY	-2.12	18.04
	VZ	5.63	9.99
410	ANGULAR VELOCITY		OPTIONAL
411	ORIENTATION		
	FACE LOFT VECTOR		
	x	0.3251	0.27673
	y	-0.07685	-0.03143
	z	0.942547	0.96043
	FACE LIE VECTOR		
	x	0.08157	0.08518
	y	0.9953	0.99633
	z	0.05302	0.00806
	FACE NORMAL VECTOR		
	x	-0.94215	-0.95716
	y	0.05965	0.07958
	z	0.32984	0.2784
	SHAFT VECTOR		
	x	-0.05612	-0.01957
	y	0.57527	0.500194
	z	-0.81603	-0.8657
412	IMPACT LOCATION		
	x	0.21	-0.38 INCH
	y	0.41	-0.16

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GOLF BALL
PROPERTIES

FIG. 14

		TWO PIECE	THREE PIECE	
405	MASS	45.387	45.23	GRAM
406	RADIUS			
	DIAMETER	1.68	1.678	INCH
407	MOMENT	1.34E-03	1.04E-03	0INCHS2
408	COR	0.759	0.7455	

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BY	CLASS SUBCLASS
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BALL LAUNCH PARAMETERS		POSSIBLE LAUNCH PARAMETERS				GOLFER A				GOLFER B			
		STEEL/2PC	STEEL/3PC	Ti/2PC	Ti/3PC	STEEL/2PC	STEEL/3PC	Ti/2PC	Ti/3PC	STEEL/2PC	STEEL/3PC	Ti/2PC	Ti/3PC
416	BALL LINEAR VELOCITY	138.3	137	141.2	140.3	132.9	152.8	155.5	154.5	140.3	155.5	160.8	160
	VX	132.6	131.2	134	132.9	3.26	3.37	0.55	0.62	151.7	152.8	157	156
	VY	3.01	3.11	3.26	3.37	44.4	44.9	28.9	29.5	0.79	0.62	0.79	0.93
	VZ	39.2	39.5	44.4	44.9					34.8	29.5	34.8	35.4
417	BALL ANGULAR VELOCITY	2512	2667	2640	2910	2820	2820	3080	3080	2996	2996	3280	3280
418	LAUNCH ANGLE	16.5	16.8	18.4	18.7	10.7	10.7	11	11	12.5	12.5	12.8	12.8
419	SIDE ANGLE	4.4	4.5	4.2	4.3	1.1	1.1	1.2	1.2	1.3	1.3	1.5	1.5
420	BALL SPEED	138.3	137	141.2	140.3	155.5	155.5	154.5	154.5	160.8	160.8	160	160
421	SPIN	2512	2667	2640	2910	2820	2820	3080	3080	2996	2996	3280	3280
422	SPIN AXIS	20.784	20.724	19.172	19.089	17.56	17.56	17.436	17.436	18.845	18.845	18.705	18.705

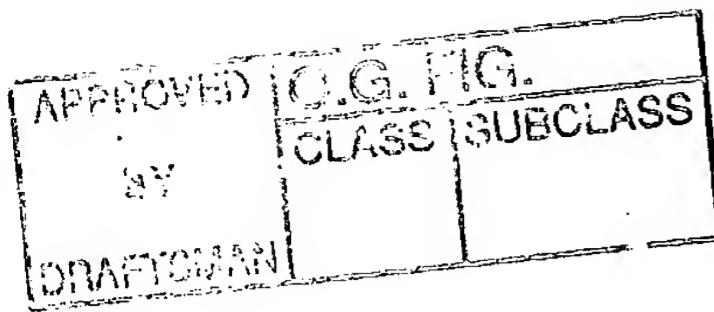
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FIG. 15

	NICE	COLD
TEMP	72	43 F
WIND	0	9 MPH
	0	90 DIRECTION
HUMIDITY	50	76 PERCENT
PRESSURE	29.92	30.33 INCHES



FIG. 16



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PREDICTED
PERFORMANCE

PLAYER	GOLFER A	NICE STEEL 2 PIECE	COLD STEEL 3 PIECE	COLD STEEL 3 PIECE	NICE Ti 2 PIECE	NICE Ti 3 PIECE	COLD Ti 2 PIECE	COLD Ti 3 PIECE	YARDS
422 TOTAL DISTANCE	237	235	232	230	239	234	236	232	232
423 TOTAL DISPERSION	-159	-160	-114	-113	-157	-158	-111	-112	-112 FEET
424 TRAJECTORY SHAPE	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)
424 TRAJECTORY SHAPE VERTICAL	88	90	87	87	110	115	108	112 FEET	
424 TRAJECTORY SHAPE HORIZONTAL	27	26	14	13	26	26	13	13 FEET	

PLAYER	GOLFER B	NICE STEEL 2 PIECE	COLD STEEL 3 PIECE	COLD STEEL 3 PIECE	NICE Ti 2 PIECE	NICE Ti 3 PIECE	COLD Ti 2 PIECE	COLD Ti 3 PIECE	YARDS
422 TOTAL DISTANCE	253	254	259	258	261	257	258	255	255
423 TOTAL DISPERSION	-116	-118	-76	-75	-139	-145	-91	-96	-96 FEET
424 TRAJECTORY SHAPE	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)
424 TRAJECTORY SHAPE VERTICAL	77	79	75	76	101	107	98	104 FEET	
424 TRAJECTORY SHAPE HORIZONTAL	27	27	15	14	33	33	18	18 FEET	

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FIG. 17